BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of the work: **Improvements to Road, Construction of Culverts and Drains in Varadarajanagara Gamgamma templeRoad in Ward No. 11, Vidyaranyapura Sub Division.**

Estimate Cost: 1200000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1.1 : Earthwork excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. Specification No. KRBS 300-1 MORT & H Specification No. 301 to 305 (P.149/I.19.1) PWD SR 2011-12	Cum							
	Culverts		3	6.00	1.80	1.20	38.88		
	CC Drain		1	67.00	0.50	0.50	16.75		
	CC Road Patechs		1	60.00	1.00	0.15	9.00		
			1	55.00	1.00	0.15	8.25		
			1	58.00	1.00	0.15	8.70		
			1	50.00	1.00	0.15	7.50		
	CC Road		1	75.00	4.00	0.15	45.00		
							134.08	**62.86**	**8428.00**
	Basic Rate	58.20							
	Area Weightage @8%	4.66							
	Total	**62.86**							
2	Removing B.S. , Slab Drain and stacking (P.28/I.5.32 PWD SR - 2011-12)	Sqm							
			2	50.00		1.35	135.00		
			2	100.00		1.35	270.00		
							405.00	47.52	**19246.00**
	Basic Rate	44.00							
	Area Weightage @8%	3.52							
	Total	**47.52**							
3	Refixing stone slabs of drains and pointing in CM (1:3) (P.28/I.5.33 PWD SR - 2011-12)	Sqm							24373.0
				Vide Item No.3			**405.00**	60.18	**24372.00**
	Basic Rate	55.72							
	Area Weightage @ 8%	4.46							
	Total	**60.18**							
4	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using 40mm and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3 PWD SR - 2011-12)	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Culverts		3	6.00	1.80	0.15	4.86		
	CC Drain near Gangamma Temple		1	67.00	0.50	0.15	5.03		
	CC Road Patches		1	60.00	1.00	0.15	9.00		
			1	55.00	1.00	0.15	8.25		
			1	58.00	1.00	0.15	8.70		
			1	50.00	1.00	0.15	7.50		
	CC Road		1	75.00	4.00	0.15	45.00		
							88.34	3939.41	**347988.00**
	Difference in Cost of Cement with Basic Rate	3647.60							
	Area Weightage @ 8%	291.81							
	Total	**3939.41**							
5	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation cement mortar 1:6**, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification. KBS 5.1.13 (P.25/I.5.6 PWD SR - 2011-12)	Cum							
	Culverts		2x3	6.00	0.60	0.80	17.28		
							17.28	2818.80	**48709.00**
	Basic Rate	2568.00							
	Add Differnce in Cost of Cement 1.40x30.00 =	42.00							
		2610.00							
	Area Weightage @ 8%	208.80							
	Total	**2818.80**							
6	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix M15 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2011-12**	Cum							
			2x3	6.00	0.60	0.10	2.16		
							2.16	4462.34	**9639.00**
	Basic Rate	4131.80							
	Area Weightage @ 8%	330.54							
	Total	**4462.34**							
8	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with **cement mortar 1:3,** 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.119 / I.15.1 PWD SR - 2011-12)	Sqm							
			2x3	6.00		0.65	23.40		
							23.40	75.71	**1772.00**
	Basic Rate	69.50							
	Add Differnce in Cost of Cement 0.02x30.00 =	0.60							
		70.10							
	Area Weightage @ 8%	5.61							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	75.71							
9	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.17 / I.4.31 PWD SR - 2011-12)	Sqm							
	For Culverts		3x10	4.80		0.23	33.12		
			3x10	1.80		0.60	32.40		
	For CC Drains		2	67.00		0.90	120.60		
							186.12	221.40	**41207.00**
	Basic Rate	205.00							
	Area Weightage @ 8%	16.40							
	Total	**221.40**							
10	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **(P.13/I.4.11 PWD SR - 2011-12)**	Cum							
	Culvert		10x3	0.60	1.80	0.23	7.45		
	For CC Drains		1	67.00	0.90	0.07	4.22		
	Covering Slab		1	67.00	0.45	0.10	3.02		
			2	50.00	0.90	0.10	9.00		
			2	66.00	0.90	0.10	11.88		
							35.57	5296.75	**188395.00**
	Difference in Cost of Cement with Basic Rate	4904.40							
	Area Weightage @ 8%	392.35							
	Total	**5296.75**							
11	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.46/ PWD SR 2011-12**	Qntl							
	Consider 80 KG / Cum		0.80	35.57			28.45		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							28.45	7347.82	**209078.00**
	Difference in Cost of Cement with Basic Rate	6803.54							
	Area Weightage 8%	544.28							
	Total	**7347.82**							
12	KSRRB M2600-3: Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, **No. 246 Item No. 31.3 PWD SR 2011-12**	M							
			8	4.00			32.00		
							32.00	133.92	**4285.00**
	Basic Rate	124.00							
	Area Weightage @ 8%	9.92							
	Total	**133.92**							
13	KSRB- 4-1.5 : Providing and laying in position plain cement concrete of **mix M20 with OPC cement @ 300 kgs, with 20mm** and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2, **No. 12/ Item No. 4.5/ PWD SR 2011-12**	Cum							
	CC Road Patches		1	60.00	1.00	0.10	6.00		
			1	55.00	1.00	0.10	5.50		
			1	58.00	1.00	0.10	5.80		
			1	50.00	1.00	0.10	5.00		
	CC Road		1	75.00	4.00	0.10	30.00		
							52.30	4989.60	**260956.00**
	Difference in Cost of Cement with Basic Rate	4620.00							
	Area Weightage @ 8%	369.60							
	Total	**4989.60**							
14	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **186/ Item No. 22.7/ PWD SR 2011-12**	Sqm							
			1	75.00	4.00		300.00		
							300.00	86.40	**25920.00**
	Basic Rate	80.00							
	Area Weightage @ 8%	6.40							
	Total	**86.40**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
15	Load for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				130.90	80.14	10490.00
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 5X1.20X2.00=12.00	12.00							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		74.20							
	Area Weightage @ 8%	5.94							
	Total	**80.14**							
16	Miscellaneous and other Charges	L/S							2043.00
								Total	**1200000.00**

(Rs. Twelve Lakhs Only)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2011-12.
3 This work included under POW 2011-12.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

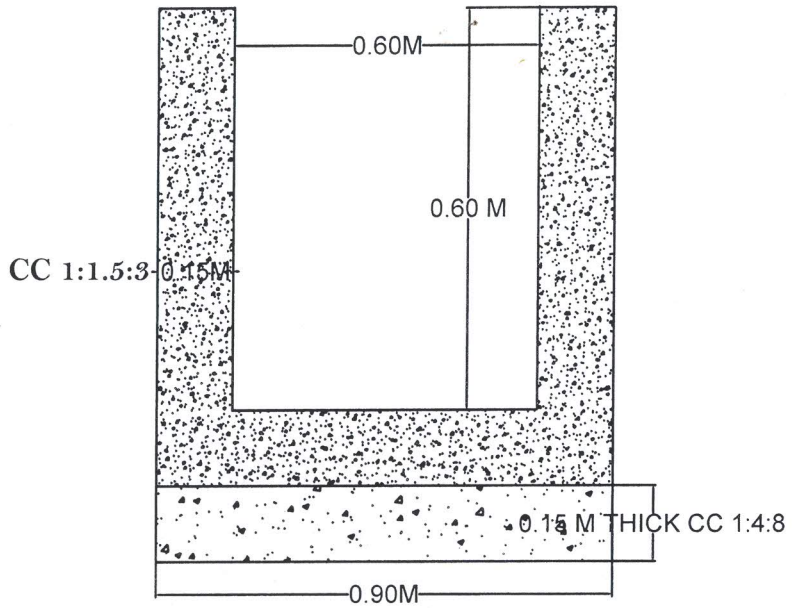
ADMINISTRATIVELY SANCTIONED FOR Rs. 12,00,000=00
Rupees Twelve Lakhs only
Under P1771 POW 11-12.
Registered as TC(Y) No. 235 /12-13
Subject to conditions contained in enclosed memo TC(Y) No. 235 /12-13
Dt. 14/05/12 Estimate A/Sanctioned
JC/Y.L/AA/12-13 No. 235
dated 14/05/12 Rs. 12,00,000=00

Joint Commissioner
(Administration)

Technical Sanction for Rs. 1200000=00
Twelve lakhs only
under P-1771 POW 11-12
registered as EE No: 144 /15-5-12 Subject to conditions contained enclosed memo.
No: AA/12-13 / Dr. 15-5-12

AE/JE

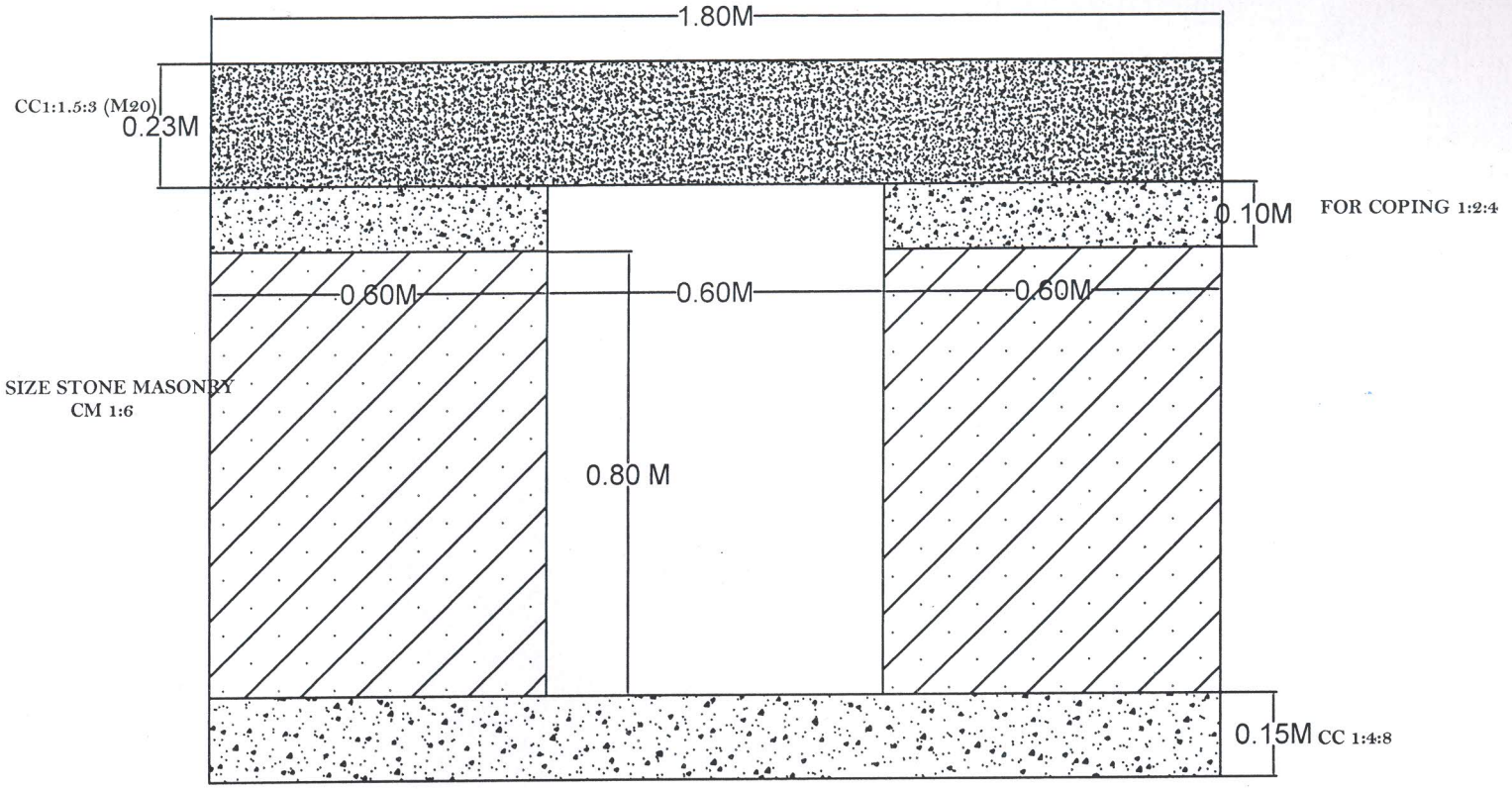
EE (BTP. Div.)



CROSS-SECTION FOR DRAIN

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.



CROSS-SECTION OF CULVERT

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.